BR 1-660 AND BR 1-664 ON US 13, SOUTHWEST OF NEW CASTLE

PROJECT SCOPE/DESCRIPTION: . The proposed work for both bridges will include patching of spalls and sealing of cracks in the existing concrete. Riprap will be placed throughout Bridge 1-660 and at the entrance and exit of Bridge 1-664 to protect the two bridges from the effects of scour. Guardrail improvements will be made as necessary.

PROJECT JUSTIFICATION: Both existing bridges are concrete frames in poor condition. Each structure has extensive cracking and spalling throughout. Bridge 1-660 and Bridge 1-664 are currently ranked 17th and 65th, respectively, on the bridge deficiency list (via the bridge management system).

County: New Castle

Municipality:

Funding Program: Road System – Bridges

Functional Category: Preservation

Representative District: 15, 17 **Senatorial District:** 12







BR 1-660 AND BR 1-664 ON US 13, SOUTHWEST OF NEW CASTLE (CONTINUED)

Bridge 1-660





Bridge 1-664





BR 1-660 AND BR 1-664 ON US 13, SOUTHWEST OF NEW CASTLE (CONTINUED)

Project	Funding Type	Original Estimate	Current Estimate	Authorization	Committed as of 06/30/03	Expended as of 06/30/03	Committed Unexpended as of 06/30/03	Authorization Available
BR 1-660 and BR 1-664 on US 13,								
Southwest of New Castle		\$ 465.0						
Prior Years	State			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
Thor rears	Federal			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			φ 0.0	φ 0.0	φ 0.0	φ σ.σ	ψ 0.0
FY 2003	State		\$ 580.0	\$ 115.0	\$ 115.0	\$ 0.0	\$ 115.0	\$ 0.0
	Federal			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2004 Authorized	State			\$ 0.0				\$ 0.0
	Federal			\$ 0.0				\$ 0.0
	Other			\$ 0.0				\$ 0.0
TW 2005 D	Gr. 4			.				Φ. 0.0
FY 2005 Projected	State Federal			\$ 9.0 \$ 36.0				\$ 9.0 \$ 36.0
	Other			\$ 36.0 \$ 0.0				\$ 30.0
	Other			ş U.U				3 0.0
FY 2006 Projected	State			\$ 84.0				\$ 93.0
11 2000 110Jecceu	Federal			\$ 336.0				\$ 372.0
	Other			\$ 0.0				\$ 0.0
FY 2007-2009 Projected	State			\$ 0.0				\$ 93.0
	Federal			\$ 0.0				\$ 372.0
	Other			\$ 0.0				\$ 0.0
Total Projected	State			\$ 208.0	\$ 115.0			\$ 93.0
Total Frojecteu	Federal			\$ 208.0 \$ 372.0	\$ 115.0 \$ 0.0			\$ 372.0
	Other			\$ 3/2.0	\$ 0.0			\$ 3/2.0
	Other			φ 0.0	ş 0.0			\$ 0.0
Total All Funds		\$ 465.0	\$ 580.0	\$ 580.0	\$ 115.0	\$ 0.0	\$ 115.0	\$ 465.0

BR 1-660 AND BR 1-664 ON US 13, SOUTHWEST OF NEW CASTLE (CONTINUED)

Project #	Description	Phase	Funding Schedule	Current Estimate	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 -2009
	BR 1-660 and BR 1-664 on US 13, Southwest of New Castle	PE	100% ST	\$ 115.0	\$ 0.0	\$ 115.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
		RW	80% FHWA	45.0	0.0	0.0	0.0	45.0	0.0	0.0
		С	80% FHWA	420.0	0.0	0.0	0.0	0.0	420.0	0.0
	Total All Funds			\$ 580.0	\$ 0.0	\$ 115.0	\$ 0.0	\$ 45.0	\$ 420.0	\$ 0.0

BR 1-665N AND BR 1-665S ON US 13 AT FARNHURST INTERCHANGE

PROJECT SCOPE/DESCRIPTION: The proposed work for both Bridges 1-665N and 1-665S will consist of replacing the expansion bearings, expansion joints, and approach slabs. The existing fixed bearings will be encased, and the spalling in the existing parapets and substructures will be repaired. The existing concrete decks will be milled and replaced with high performance concrete overlays.

PROJECT JUSTIFICATION: The existing Bridges 1-665N and 1-665S are one-span steel girder bridges with concrete decks. The two structures are in poor condition due to excessive delaminations that need to be repaired. In addition, the existing expansion bearings have excessive rotation and the fixed bearings need to be encased to meet current seismic requirements. These bridges were added to the program at the request of the Bridge Management Section after a recent inspection indicated that the bearings were overextended beyond their limits of serviceability.

County: New Castle

Municipality:

Funding Program: Road System – Bridges

Functional Category: Preservation

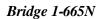
Representative District: 16, 17 **Senatorial District:** 12, 13







BR 1-665N AND BR 1-665S ON US 13 AT FARNHURST INTERCHANGE (CONTINUED)







Bridge 1-665S





BR 1-665N AND BR 1-665S ON US 13 AT FARNHURST INTERCHANGE (CONTINUED)

Project	Funding Type	Original Estimate	Current Estimate	Authorization	Committed as of 06/30/03	Expended as of 06/30/03	Committed Unexpended as of 06/30/03	Authorization Available
BR 1-665N and BR 1-665S on US 13 at Farnhurst Interchange		\$ 1,300.0						
Prior Years	State			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Federal			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2003	State		\$ 1,300.0	\$ 79.0	\$ 79.0	\$ 0.0	\$ 79.0	\$ 0.0
2	Federal		7 -,	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2004 Authorized	State			\$ 0.0				\$ 0.0
	Federal			\$ 0.0				\$ 0.0
	Other			\$ 0.0				\$ 0.0
FY 2005 Projected	State			\$ 244.2				\$ 244.2
11 2000 11 0jectou	Federal			\$ 976.8				\$ 976.8
	Other			\$ 0.0				\$ 0.0
FY 2006 Projected	State			\$ 0.0				\$ 244.2
	Federal			\$ 0.0				\$ 976.8
	Other			\$ 0.0				\$ 0.0
FY 2007-2009 Projected	State			\$ 0.0				\$ 244.2
F 1 2007-2009 1 10jecteu	Federal			\$ 0.0				\$ 976.8
	Other			\$ 0.0				\$ 0.0
Total Projected	State			\$ 323.2	\$ 79.0			\$ 244.2
	Federal			\$ 976.8	\$ 0.0			\$ 976.8
	Other			\$ 0.0	\$ 0.0			\$ 0.0
Total All Funds		\$ 1,300.0	\$ 1,300.0	\$ 1,300.0	\$ 79.0	\$ 0.0	\$ 79.0	\$ 1,221.0

BR 1-665N AND BR 1-665S ON US 13 AT FARNHURST INTERCHANGE (CONTINUED)

Project #	Description	Phase	Funding Schedule	Current Estimate	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 -2009
	BR 1-665N and BR 1-665S on US 13 at Farnhurst Interchange	PE	100% ST	\$ 79.0	\$ 0.0	\$ 79.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
		RW	80% FHWA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		С	80% FHWA	1,221.0	0.0	0.0	0.0	1,221.0	0.0	0.0
	Total All Funds			\$ 1,300.0	\$ 0.0	\$ 79.0	\$ 0.0	\$ 1,221.0	\$ 0.0	\$ 0.0

BR 1-687 ON SOUTH WALNUT STREET AND BR 1-688 ON SOUTH MARKET STREET OVER CHRISTINA RIVER, SIDEWALK AND STREETSCAPING, WILMINGTON

PROJECT SCOPE/DESCRIPTION: This project will improve the aesthetics for Bridge 1-688 (South Market Street Bridge) and Bridge 1-687 (Walnut Street Bridge) over the Christina River in Wilmington. Project goals include new sidewalks on the bridges, up lighting of the bridges, and painting.

PROJECT JUSTIFICATION: The improvements will enhance the pedestrian environment in the area in support of the residential and commercial development of the Christina's south bank between Market and Walnut Street. It will also help to beautify an area which was previously industrial in character.

County: New Castle Municipality: Wilmington

Funding Program: Road System – Bridges

Functional Category: Management

Representative District: 2, 16 **Senatorial District:** 2, 3







BR 1-687 ON SOUTH WALNUT STREET AND BR 1-688 ON SOUTH MARKET STREET OVER CHRISTINA RIVER, SIDEWALK AND STREETSCAPING, WILMINGTON (CONTINUED)

Project	Funding Type	Original Estimate	Current Estimate	Authorization	Committed as of 06/30/03	Expended as of 06/30/03	Committed Unexpended as of 06/30/03	Authorization Available
BR 1-687 on South Walnut Street and BR 1-688 on								
South Market Street Over Christina River,								
Sidewalk and Streetscaping, Wilmington		\$ 1,100.0						
Prior Years	State			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Federal			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2003	State		\$ 1,400.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Federal		. , ,	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2004 Authorized	State			\$ 400.0				\$ 400.0
112001114111011204	Federal			\$ 0.0				\$ 0.0
	Other			\$ 0.0				\$ 0.0
FY 2005 Projected	State			\$ 1,000.0				\$ 1,400.0
	Federal			\$ 0.0				\$ 0.0
	Other			\$ 0.0				\$ 0.0
FY 2006 Projected	State			\$ 0.0				\$ 1,400.0
	Federal			\$ 0.0				\$ 0.0
	Other			\$ 0.0				\$ 0.0
FY 2007-2009 Projected	State			\$ 0.0				\$ 1,400.0
9	Federal			\$ 0.0				\$ 0.0
	Other			\$ 0.0				\$ 0.0
Total Projected	State			\$ 1,400.0	\$ 0.0			\$ 1,400.0
-	Federal			\$ 0.0	\$ 0.0			\$ 0.0
	Other			\$ 0.0	\$ 0.0			\$ 0.0
Total All Funds		\$ 1,100.0	\$ 1,400.0	\$ 1,400.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 1,400.0

BR 1-687 ON SOUTH WALNUT STREET AND BR 1-688 ON SOUTH MARKET STREET OVER CHRISTINA RIVER, SIDEWALK AND STREETSCAPING, WILMINGTON (CONTINUED)

Project #	Description	Phase	Funding Schedule	Current Estimate	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 -2009
	BR 1-687 on South Walnut Street and BR 1-688 on South Market Street Over Christina River, Sidewalk and Streetscaping, Wilmington	PE	100% ST	\$ 400.0	\$ 0.0	\$ 0.0	\$ 400.0	\$ 0.0	\$ 0.0	\$ 0.0
		С	100% ST	1,000.0	0.0	0.0	0.0	1,000.0	0.0	0.0
							·			
	Total All Funds			\$ 1,400.0	\$ 0.0	\$ 0.0	\$ 400.0	\$ 1,000.0	\$ 0.0	\$ 0.0

BR 1-688 ON SOUTH MARKET STREET OVER CHRISTINA RIVER

PROJECT SCOPE/DESCRIPTION: Bridge 1-688 is a double leaf drawbridge, which spans the Christina River. An in-depth inspection of the structural, mechanical, and electrical systems was conducted. Improvements include repairs to the structure steel, electrical system and the mechanical gearing.

PROJECT JUSTIFICATION: Bridge 1-688 is functionally obsolete and ranks 30th on the department's bridge deficiency list (via the bridge management program).

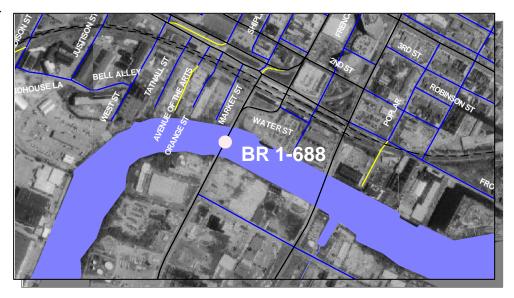
County: New Castle Municipality: Wilmington

Funding Program: Road System – Bridges

Functional Category: Preservation

Representative District: 2, 16 **Senatorial District:** 2, 3









BR 1-688 ON SOUTH MARKET STREET OVER CHRISTINA RIVER (CONTINUED)

Project	Funding Type	Original Estimate	Current Estimate	Authorization	Committed as of 06/30/03	Expended as of 06/30/03	Committed Unexpended as of 06/30/03	Authorization Available
BR 1-688 on South Market Street Over Christina River		\$ 5,790.0						
		, .,						
Prior Years	State			\$ 200.0	\$ 200.0	\$ 156.7	\$ 43.3	\$ 0.0
	Federal			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2003	State		\$ 8,600.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Federal			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2004 Authorized	State			\$ 1,680.0				\$ 1,680.0
	Federal			\$ 6,720.0				\$ 6,720.0
	Other			\$ 0.0				\$ 0.0
FY 2005 Projected	State			\$ 0.0				\$ 1,680.0
	Federal			\$ 0.0				\$ 6,720.0
	Other			\$ 0.0				\$ 0.0
								+ + + + + + + + + + + + + + + + + + + +
FY 2006 Projected	State			\$ 0.0				\$ 1,680.0
	Federal			\$ 0.0				\$ 6,720.0
	Other			\$ 0.0				\$ 0.0
FY 2007-2009 Projected	State			\$ 0.0				\$ 1,680.0
	Federal			\$ 0.0				\$ 6,720.0
	Other			\$ 0.0				\$ 0.0
Total Projected	State			\$ 1,880.0	\$ 200.0			\$ 1,680.0
	Federal			\$ 6,720.0	\$ 0.0			\$ 6,720.0
	Other			\$ 0.0	\$ 0.0			\$ 0.0
Total All Funds		\$ 5,790.0	\$ 8,600.0	\$ 8,600.0	\$ 200.0	\$ 156.8	\$ 43.3	\$ 8,400.0

BR 1-688 ON SOUTH MARKET STREET OVER CHRISTINA RIVER (CONTINUED)

Project #	Description	Phase	Funding Schedule	Current Estimate	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 -2009
21-074-07	BR 1-688 on South Market Street Over Christina River	PE	100% ST	\$ 200.0	\$ 200.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
		С	80% FHWA	8,400.0	0.0	0.0	8,400.0	0.0	0.0	0.0
	Total All Funds			\$ 8,600.0	\$ 200.0	\$ 0.0	\$ 8,400.0	\$ 0.0	\$ 0.0	\$ 0.0

PROJECT SCOPE/DESCRIPTION: In order to maintain the interstate system and prolong premature replacement of its bridges, work will be performed as follows: replace the expansion bearings; replace portions of the approach slabs and backwalls on the abutments; replace the joint seals to prevent moisture intrusion, rehabilitate the substructure units by crack sealing and waterproofing the surfaces; repair the structural steel; clean and paint the structural steel; and replace the trough system beneath the finger joints.

PROJECT JUSTIFICATION: Bridges 1-708 and 1-709 on I-95 over Sunset Lake Road (SR 72) and Bridge 1-711 on Salem Church Road (N348) over I-95 are located in the Newark portion of the Delaware Turnpike area, which is a critical asset for the state. These projects are grouped together because of their close proximity with each other. Bridges 1-708, 1-709, and 1-711 are in need of repair to maintain their serviceability and are currently ranked 358th, 105th, and 88th, respectively, out of 1,399 on the department's bridge deficiency list (via the bridge management program).



County: New Castle

Municipality:

Funding Program: Road System – Bridges

Functional Category: Preservation **Representative District:** 24, 25, 26 **Senatorial District:** 10, 11







Bridge 1-708





Bridge 1-709





Project	Funding Type	Original Estimate	Current Estimate	Authorization	Committed as of 06/30/03	Expended as of 06/30/03	Committed Unexpended as of 06/30/03	Authorization Available
BR 1-708 and BR 1-709 on I-95 Over Sunset Lake Road and BR 1-711 on Salem Church Road Over I-95		\$ 4,212.0						
Prior Years	State			\$ 61.4	\$ 61.4	\$ 2.9	\$ 58.5	\$ 0.0
	Federal			\$ 245.6	\$ 245.6	\$ 26.5	\$ 219.1	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2003	State		\$ 4,212.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Federal			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2004 Authorized	State			\$ 0.0				\$ 0.0
	Federal			\$ 0.0				\$ 0.0
	Other			\$ 0.0				\$ 0.0
FY 2005 Projected	State			\$ 781.0				\$ 781.0
	Federal			\$ 3,124.0				\$ 3,124.0
	Other			\$ 0.0				\$ 0.0
FY 2006 Projected	State			\$ 0.0				\$ 781.0
-	Federal			\$ 0.0				\$ 3,124.0
	Other			\$ 0.0				\$ 0.0
FY 2007-2009 Projected	State			\$ 0.0				\$ 781.0
*	Federal			\$ 0.0				\$ 3,124.0
	Other			\$ 0.0				\$ 0.0
Total Projected	State			\$ 842.4	\$ 61.4			\$ 781.0
	Federal			\$ 3,369.6	\$ 245.6			\$ 3,124.0
	Other			\$ 0.0	\$ 0.0			\$ 0.0
Total All Funds		\$ 4,212.0	\$ 4,212.0	\$ 4,212.0	\$ 307.0	\$ 29.4	\$ 277.6	\$ 3,905.0

Project #	Description	Phase	Funding Schedule	Current Estimate	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 -2009
22-074-08	BR 1-708 and BR 1-709 on I-95 Over Sunset Lake Road and BR 1-711 on	PE	80% FHWA	\$ 307.0	\$ 307.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
22-074-08	Salem Church Road Over 195	C	80% FHWA	3,905.0	· ·	0.0	0.0			0.0
	Total All Funds			\$ 4,212.0	\$ 307.0	\$ 0.0	\$ 0.0	\$ 3,905.0	\$ 0.0	\$ 0.0

BR 1-712B, RAMP J AT I-95, SERVICE CENTER

PROJECT SCOPE/DESCRIPTION: This project will include replacement of the top slab of the existing rigid concrete frame with a high performance, concrete slab reinforced with composite mini-beams. Stabilization of the abutment walls is also included.

PROJECT JUSTIFICATION: Bridge 1-712B is structurally deficient and ranks 23rd on the department's bridge deficiency list (via the bridge management program). This project will be partially funded under the FHWA Innovative Bridge Research funding.

County: New Castle

Municipality:

Funding Program: Road System – Bridges

Functional Category: Preservation

Representative District: 26 **Senatorial District:** 11







BR 1-712B, RAMP J AT I-95, SERVICE CENTER (CONTINUED)

Project	Funding Type	Original Estimate	Current Estimate	Authorization	Committed as of 06/30/03	Expended as of 06/30/03	Committed Unexpended as of 06/30/03	Authorization Available
BR 1-712B, Ramp J at I-95, Service Center		\$ 415.0						
Prior Years	State			\$ 40.0	\$ 40.0	\$ 40.0	\$ 0.0	\$ 0.0
11101 Tears	Federal			\$ 360.0	\$ 281.4	\$ 281.3	\$ 0.1	\$ 78.6
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2003	State		\$ 400.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Federal		·	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 78.6
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2004 Authorized	State			\$ 0.0				\$ 0.0
	Federal			\$ 0.0				\$ 78.6
	Other			\$ 0.0				\$ 0.0
FY 2005 Projected	State			\$ 0.0				\$ 0.0
	Federal			\$ 0.0				\$ 78.6
	Other			\$ 0.0				\$ 0.0
FY 2006 Projected	State			\$ 0.0				\$ 0.0
	Federal			\$ 0.0				\$ 78.6
	Other			\$ 0.0				\$ 0.0
FY 2007-2009 Projected	State			\$ 0.0				\$ 0.0
•	Federal			\$ 0.0				\$ 78.6
	Other			\$ 0.0				\$ 0.0
Total Projected	State			\$ 40.0	\$ 40.0			\$ 0.0
•	Federal			\$ 360.0	\$ 281.4			\$ 78.6
	Other			\$ 0.0	\$ 0.0			\$ 0.0
Total All Funds		\$ 415.0	\$ 400.0	\$ 400.0	\$ 321.4	\$ 321.4	\$ 0.1	\$ 78.6

BR 1-712B, RAMP J AT I-95, SERVICE CENTER (CONTINUED)

Project #	Description	Phase	Funding Schedule	Current Estimate	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 -2009
22-090-01	BR 1-712B, Ramp J at 195, Service Center	С	90% FHWA	\$ 400.0	\$ 400.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Total All Funds			\$ 400.0	\$ 400.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0